EnvisionTouch

Intuitive mobile app with predesigned controls for your Philips Dynalite System

User Guide

Version 1.2

PHILIPS

dynalite

Background

Philips Dynalite is a highly specialized company whose principal occupation is to provide 'cutting edge' solutions for lighting control. Our achievements have been recognized worldwide and Philips Dynalite is generally the system of choice for projects involving integration with third-party vendor's equipment and for large-scale applications.

Philips Dynalite's philosophy is to provide the best solution possible for each and every project. This is the key to our success. Our considerable investment in Research & Development ensures that we remain at the forefront of our industry. Our position as a world leader in lighting management systems for the future is sustained through our total commitment to innovation.

We are represented around the world by distributors and dealers who are handpicked for their ability to provide the highest possible level of service.

From a stock exchange in Shanghai, to a luxury resort in Dubai, a smart home in Sao Paulo to limestone caves in New Zealand, Philips Dynalite's innovative solutions deliver intelligent light.

Ongoing research and development has enabled Philips Dynalite to create secure automated systems that control tens of thousands of individual light fittings in high-rise office buildings from any location anywhere in the world. Our networks are engineered to deliver instant notification of power or system failure, and report via a LAN, internet, or through an SMS gateway to a mobile phone. This provides the assurance necessary in applications where continuous operation is vital, such as road tunnels, computer servers or cold storage units.

Philips Dynalite's modular product design philosophy also improves system flexibility. Through this approach, specific application requirements can be accommodated with greatly reduced lead times. As an industry leader Philips Dynalite is committed to creating superior lighting control and energy management systems, setting new benchmarks in performance and efficiency.

In receiving the International Association of Lighting Designers award for Most Innovative Product, the Philips Dynalite control system has been independently recognized as 'A user friendly and sensible modular approach, which takes it from sophisticated domestic settings to large architectural spaces'.

Contents

EnvisionTouch **3**

Introduction *3*
Running EnvisionTouch *3*
Requirements *4*
EnvisionTouch controls *5*
Project Settings *6*
Tablet Control Page Examples *7*
Exporting the project file from EnvisionProject *8*
Step 1 8
Step 2 9
Step 3 10
Step 4 15
Step 5 16
Step 6 17
Step 7 19

About this guide

Guide Overview

This guide is designed to assist in the configuration of Dynalite control devices.

A working knowledge of Apple iOS and Google Android devices is required to effectively use this document. For more information on Dynalite commissioning processes, consult the EnvisionProject Quickstart Guide or EnvisionProject Training Guide.

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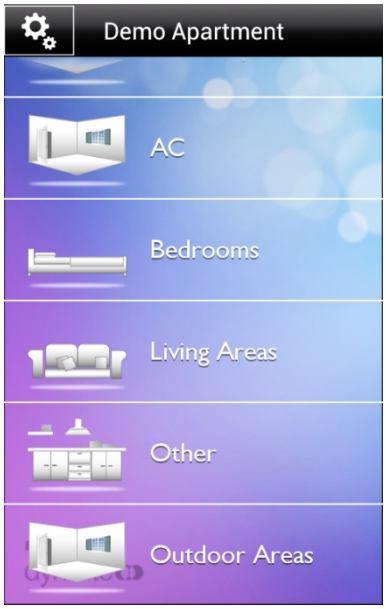
Document Revision e

EnvisionTouch

Introduction

EnvisionTouch is an innovative control application from the Philips Dynalite team. It is a self-configuring application that provides control options for lighting, HVAC, curtains and ancillary services from a single point.

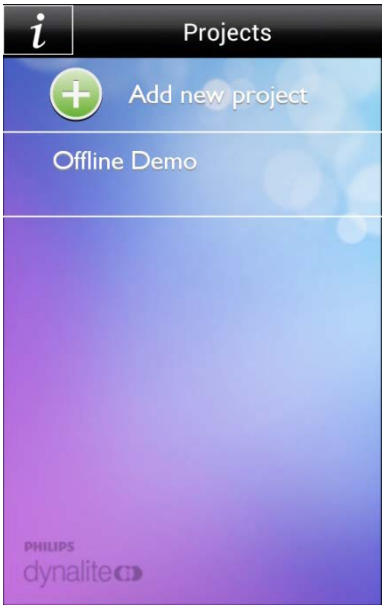


It is a perfect addition to any Philips Dynalite Intelligent Control System, providing a powerful portable interface with an intuitive experience for every user as well as providing simple controls for commercial projects ranging in size from a single meeting room to a large building.

EnvisionTouch is designed to work with Google Android and Apple iOS devices. EnvisionTouch empowers users to select preset lighting configurations, turn lights on and off, or manually adjust dimming settings. Equally, the user interface includes controls for operation of both HVAC systems and blinds, allowing heating/cooling and blind position presets to be selected, or manual adjustments made if preferred.

Running EnvisionTouch

EnvisionTouch operates your Philips Dynalite system with user-friendly Control Pages, Buttons and Sliders on your smart device. These control elements correspond to the logical areas and channels in your system. EnvisionTouch automatically loads this information from the Philips Dynalite 100BT Ethernet Gateway device. A wireless router connected to the gateway then allows the hand-held smart device to communicate with the Dynalite system.



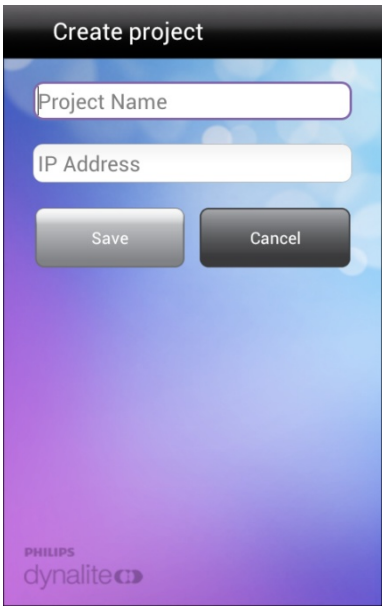
After EnvisionTouch has been downloaded from the App store it will appear as an icon.

Touch the icon to launch the EnvisionTouch application

When EnvisionTouch is opened, the Projects Page displays the following options:

- **Add new project**
  connects to an available control system and loads the control pages
- **Offline Demo**
  provides a simulation of controls for a typical smart home.

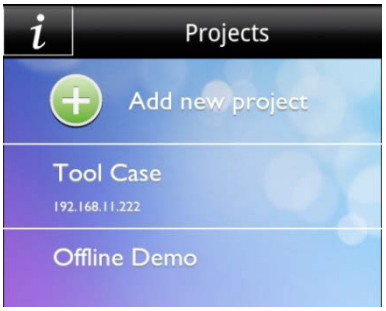
The information icon provides information about the EnvisionTouch app including the version number, setup requirements and support links.



➤ Add a new Project

1. Touch to open the Create Project Page
2. Enter a name for your control system
3. Enter the IP address of the 100BT Gateway
4. Press

5. The project is now listed on the Projects Page
6. Touch the new project name to access the control pages



EnvisionTouch is now set up and ready for use!

The areas listed in your system are based on the xml file loaded into the Ethernet gateway.

➤ Touch an Area name to open the control page for that Area.

Requirements

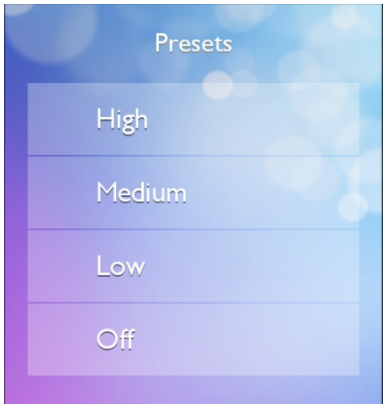
Configuration requirements to enable your Philips Dynalite EnvisionTouch application to function:

1. The lighting and other devices you wish to control must be under the management of the Philips Dynalite Control System.
2. The Philips Dynalite Control System must be commissioned prior to the addition of EnvisionTouch.
3. There must be a Philips Dynalite Ethernet Gateway in the control system with HTTP enabled and loaded with the specific system's xml profile.
4. The Ethernet gateway must be connected to a wireless router or access point.

EnvisionTouch controls

Based on the system design, control pages may include one or more of the following controls:

Presets



Presets recall a preset scene for a specific Area.
Default Presets are High (100%), Medium (70%), Low (40%) and OFF for all channels in the Area

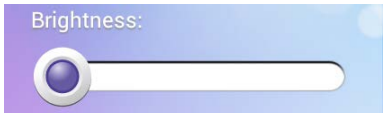
On/Off

The

and

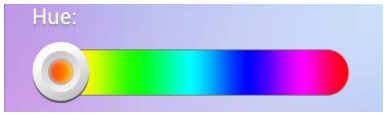
buttons provide channel switching.

Brightness



Slider changes the brightness level of a channel (0 to 100%).

Hue



Slider changes the color for a multicolored lighting channel.

Saturation

Slider changes the color saturation for a multicolored lighting channel.

Warm/Cool

Slider changes the white temperature spectrum for a lighting channel.

Temperature Setpoint

Sliding ruler changes the temperature setpoint for the A/C.

Fan Speed

Slider changes the air conditioning fan speed.

Project Settings

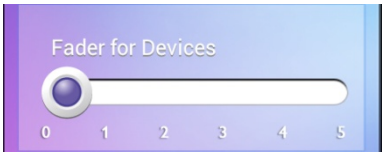
The Project Settings Page controls the global settings for each page.

➤ Touch the Settings icon to open the Project Settings Page.

The following global settings are available:

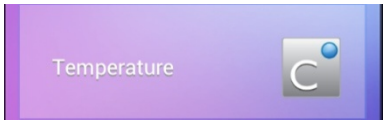
Fader for Presets

Slider sets the fade time for Preset commands in seconds



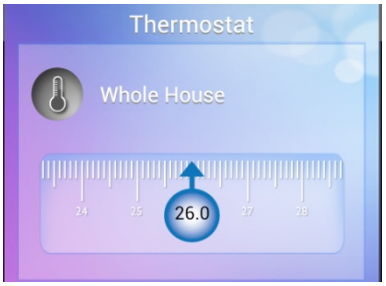
Fader for Devices

Slider sets the fade time for Device commands in seconds



Temperature

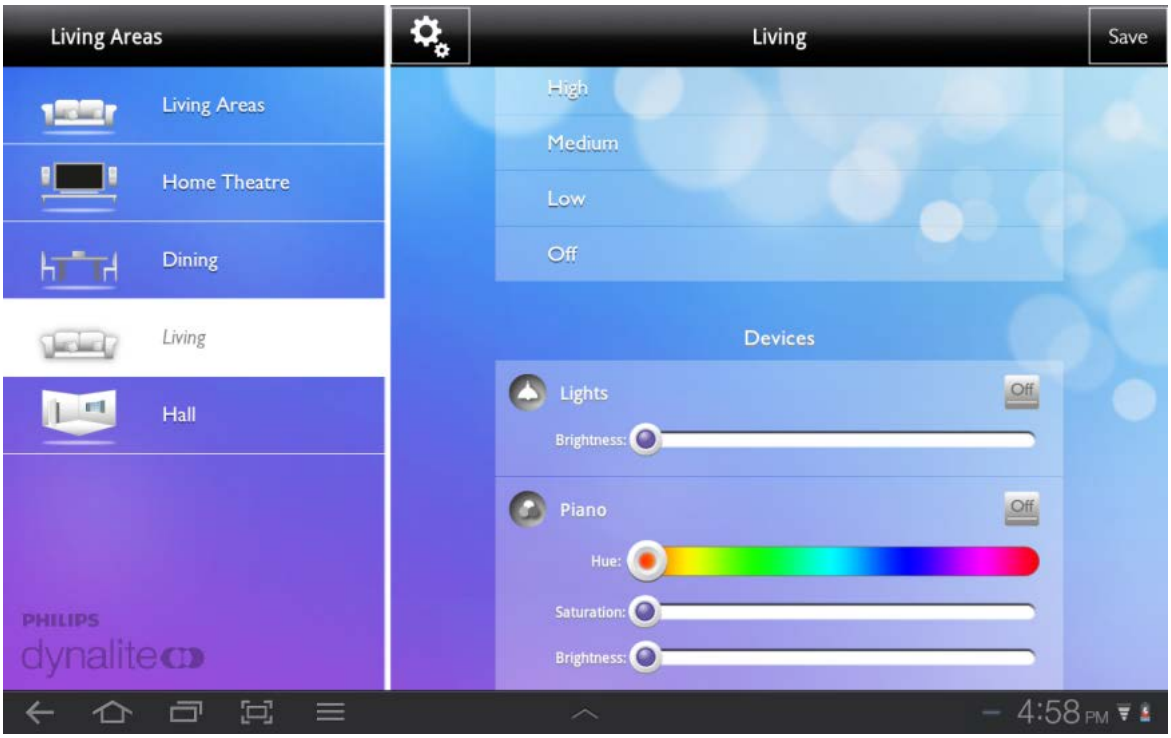
The and buttons switch the temperature units between Celsius and Fahrenheit.



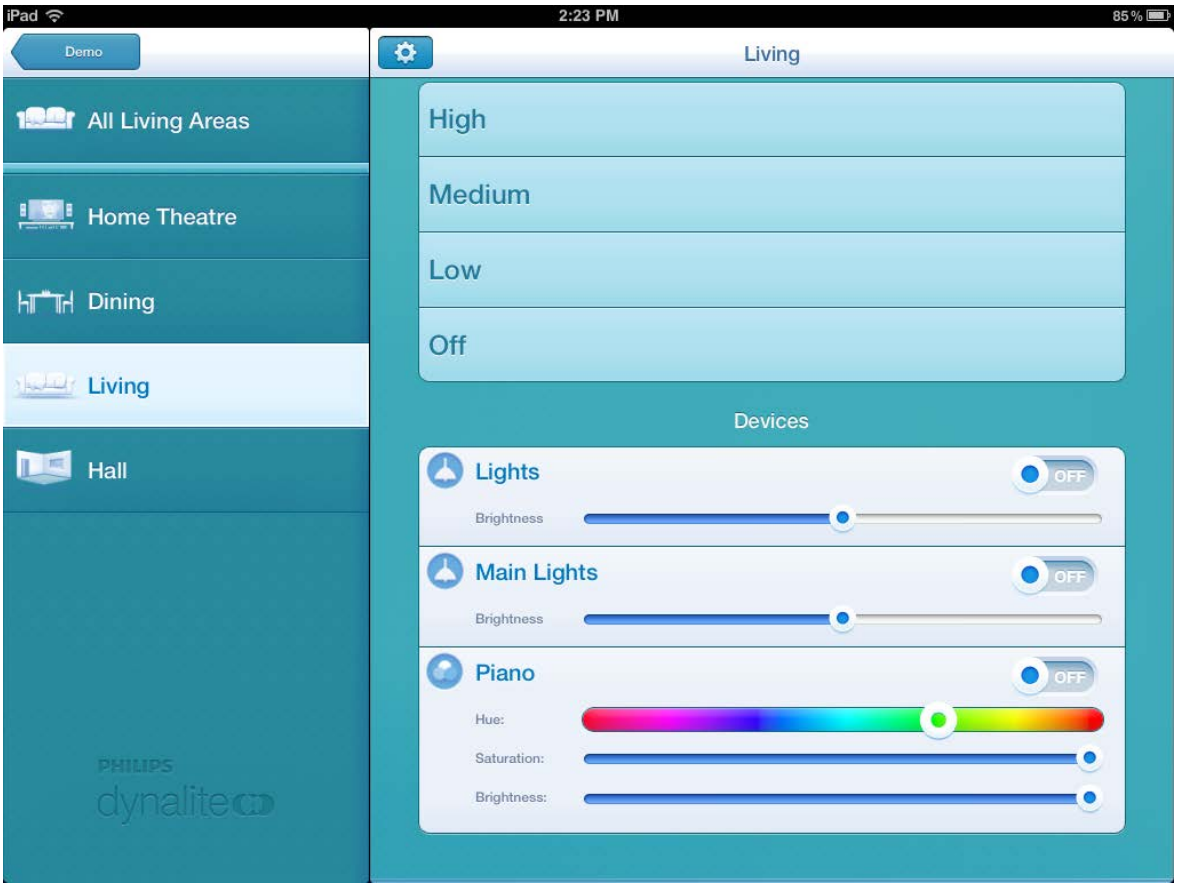
Thermostat

Sliding ruler sets the temperature setpoint for the entire system.

Tablet Control Page Examples



Android tablet control page example



iPad control page example

Exporting the project file from EnvisionProject

This procedure describes the steps for exporting the logical configuration information from the EnvisionProject commissioning software, and saving it as an xml file into the 100BT Ethernet Gateway. This information is then used for the control display on your Android or iOS device.

Step 1

➤ Configure 100BT:

1. Open EnvisionProject job and connect to the network
2. In Network View select the 100BT device
3. Select the Ethernet Gateway Page and click the advanced button
4. If your job has multiple 100BTs then set Use static IP address to true
5. Set HTML to Enabled.
6. Save to Device

Connection	
Use static IP address	True
Local IP address	192.168.11.222
Assigned IP address	192.168.11.222
Subnet mask	255.255.254.0
Gateway	0.0.0.0
Mac address	00:20:4a:ba:8f:5e
Password	
Telnet password enabled	False
Telnet password	
Passive TCP Gateway	
Passive TCP	Disabled
Local TCP port number	0
UDP Gateway	
UDP Gateway	Disabled
UDP port number	0
HTML	
HTML	Enabled

Step 2

It is recommended to make a backup copy of the project file before making changes to the logical folder structure that will be exported to the xml file. This enables you to customize the content of the xml file to make the pages in the app display only the info that is required.

➤ Make a copy the EP project.

1. Open the EnvisionProject job
2. Click the File menu and Select Save As…
3. Enter name for the backup project
4. Click Save

To facilitate easier navigation, folders are used to group like areas together ie. Bedrooms.
This folder structure is required for importing the Area/Channel assignments into the Android or iOS device. The XML file contains the logical structure and the following logical properties:

Folder Properties

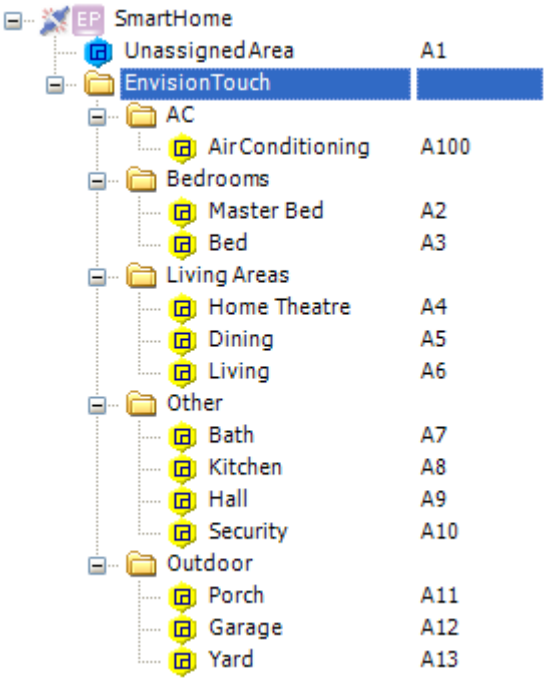
- Name
- Description

Area Properties

- Number
- Name
- Description
- Location
- Presets

Channel Properties

- Number
- Name
- Description
- Location
- Type

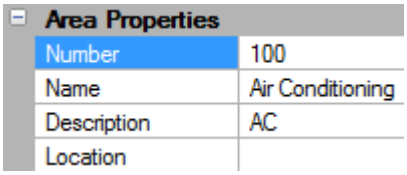


Step 3

➤ Create EnvisionTouch Folders:

1. Open the EnvisionProject job
2. Click on Logical View
3. Create a folder with the name "EnvisionTouch"
4. Create subfolders where you can place your Areas/Channels
5. Click and drag to move all the Areas/Channels under the subfolders
6. Only add logical information (channels, presets, areas etc.) that you want displayed in EnvisionTouch
7. Enter the reserved wording into the Name Property and/or Description Property on the Area Properties Page. EnvisionTouch will then use a suitable icon.
8. Enter the reserved wording into the Name Property and/or Description Property and/or select Channel Type on the Channel Properties Page. EnvisionTouch will then use a suitable icon.

For example:



Note: The control page uses the channel type information to determine whether buttons or sliders will be created.

For Warm White/Cool White channel controls, ensure there are two channels in the same area, with the same name, and set the respective channel types to Warm White/Cool White. Similarly for R, G, B channel controls, set the channel types to Red, Green, and Blue.

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Reserved Area Wording Table

Icon (iOS)	Icon (Android)	if description is	if name contains
		GenericRoom	<default>
		Kitchen	kitchen or other
		LivingRoom	living or lounge
		HomeTheatre	theatre
		MasterBed	"master bed"
		Bed	bed
		BathRoom	bath or shower
		DiningRoom	dining
		Basement	basement or storage
		Garden	garden or yard
		Pond	pond or fish or fountain
		Kids Corner	kids or rumpus

Icon (iOS)	Icon (Android)	if description is	if name contains
		Garage	garage
		Office	office or study
		Entrance/Lobby	entrance or lobby
		Attic	attic
		Sauna	sauna or spa
		Gym	gym
		Bar	bar

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Reserved Channel Wording Table

Icon (iOS)	Icon (Android)	if description is	if name is	if name contains
		Aircon	AC	aircon or "air con"
		Audio	audio	sound
		Blinds		blind or curtain
		Computer	PC or Mac	computer
		Fan	fan or fans	
		Foxtel		foxtel
		Garage		"garage door" or "roller door"
		IRCom		infra
		Lamp	bedsides	lamp
		Light	piano or ensuite	light
		Music		music
		Projector	screen	projector

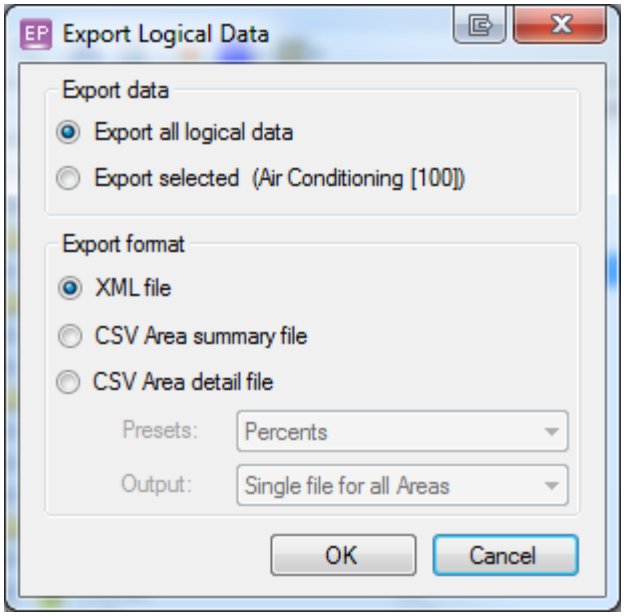
Icon (iOS)	Icon (Android)	if description is	if name is	if name contains
		Security		security
		TV	TV	television
		Spot		"spot lights" or "halogen"
		Wall		wall
		Cove		cove

Channel Type Table

Icon (iOS)	Icon (Android)	Icon Name	If Channel type is
		RGB	13, 14, 15 (3 channels with same name)
		Fan	8
		IRCom	Warm White/Cool White

Step 4

➤ Export Logical data:



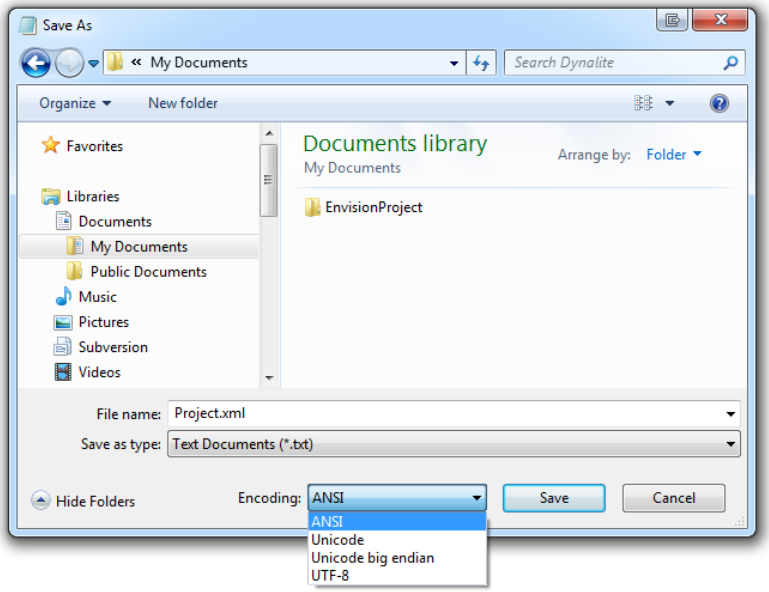
1. From the File Menu select Export > Logical Data….
2. In the Export Logical Data dialog box check the Export all logical data and XML file options.
3. Click the OK button.
4. Enter the name Project.xml
5. Click the Save button.

Warning: the file must be called Project.xml in order for the file to work.

The xml file size must be under 64K. If you use only English characters for all logical Area/Channel names then you can make the xml file smaller by doing the following:

➤ Reduce the XML file size by half

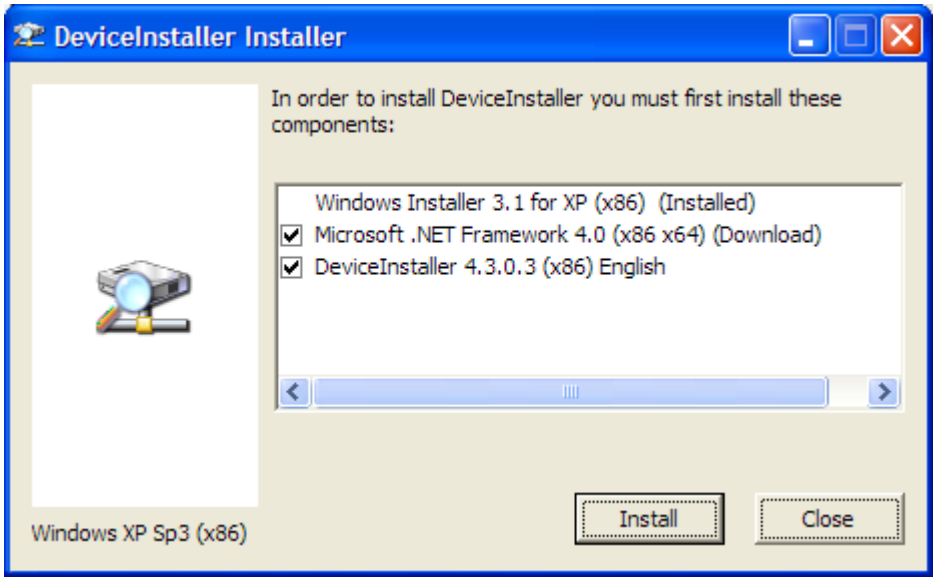
1. Open the file in Notepad
2. Select File > Save As from the menu
3. In the Encoding Dropdown list on the bottom of the Save As dialog, select ANSI
4. Click the Save button
5. The xml file will now be half the size it used to be.



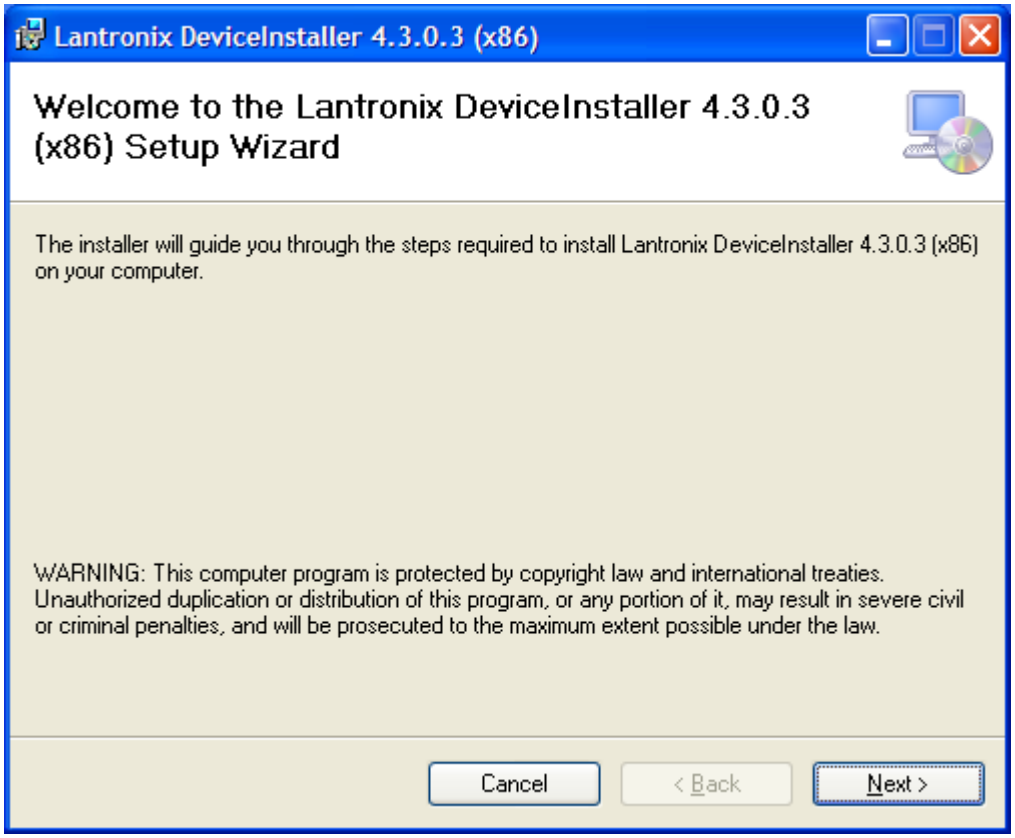
Step 5 ➤ Install Lantronix DeviceInstaller™ software:

1. Connect your PC to the 100BT via:
    a. Wireless router or
    b. Ethernet cable.
2. Download DeviceInstaller from the Lantronix site.

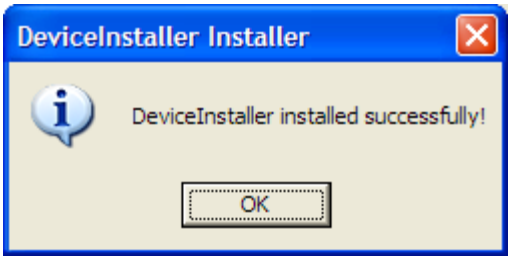
    http://www.lantronix.com/device-networking/utilities-tools/device-installer.html
3. Save it to a folder on your PC.
4. Run the setup.exe.
5. Select the language for the application and press the OK button.
6. Click the Install button.


DeviceInstaller Installer
In order to install DeviceInstaller you must first install these components:
Windows Installer 3.1 for XP (x86) (Installed)
Microsoft .NET Framework 4.0 (x86 x64) (Download)
DeviceInstaller 4.3.0.3 (x86) English
Windows XP Sp3 (x86)
Install
Close

7. Click the Start button to download required components, if applicable.
8. Click the Install button to install .NET, if applicable.
9. Click the Next button in the Lantronix DeviceInstaller Setup Wizard.

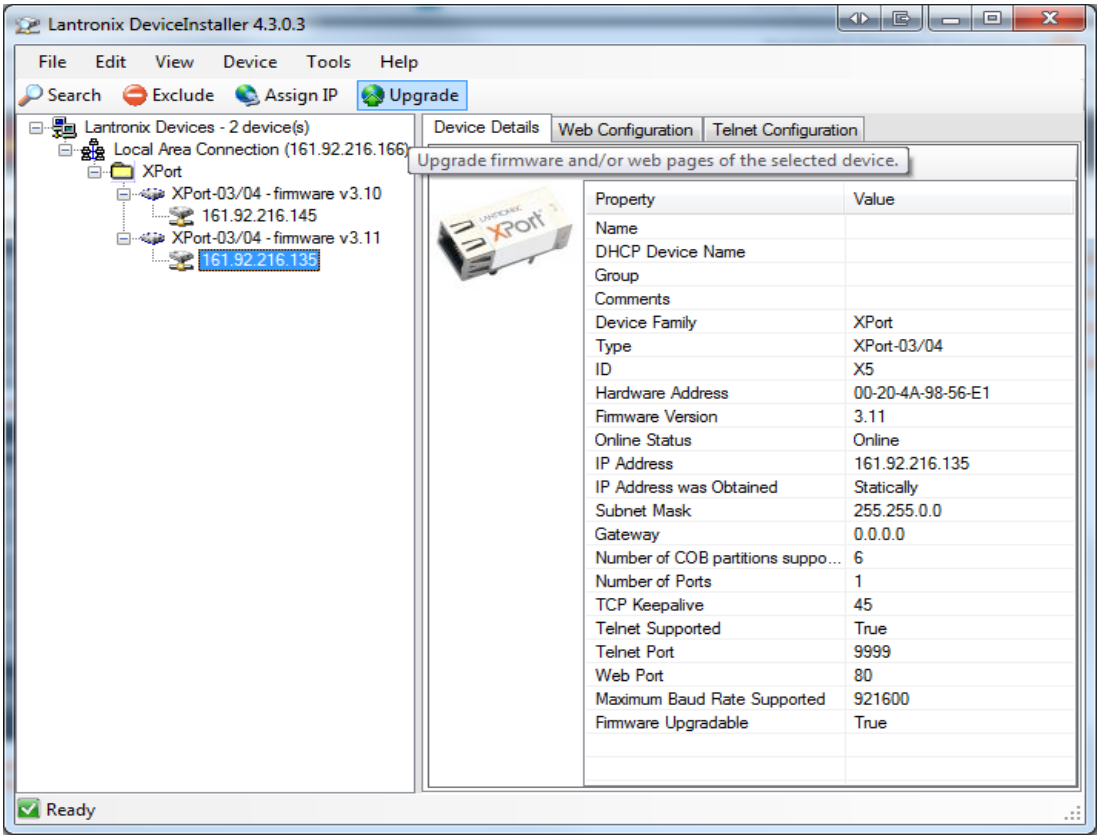

Lantronix DeviceInstaller 4.3.0.3 (x86)
Welcome to the Lantronix DeviceInstaller 4.3.0.3 (x86) Setup Wizard
The installer will guide you through the steps required to install Lantronix DeviceInstaller 4.3.0.3 (x86) on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

10. Click the Next button to accept the installation folder.
11. Click the Next button to confirm installation.
12. Click the Close button.
13. Click the OK button.



Step 6 ➤ Run Lantronix DeviceInstaller:

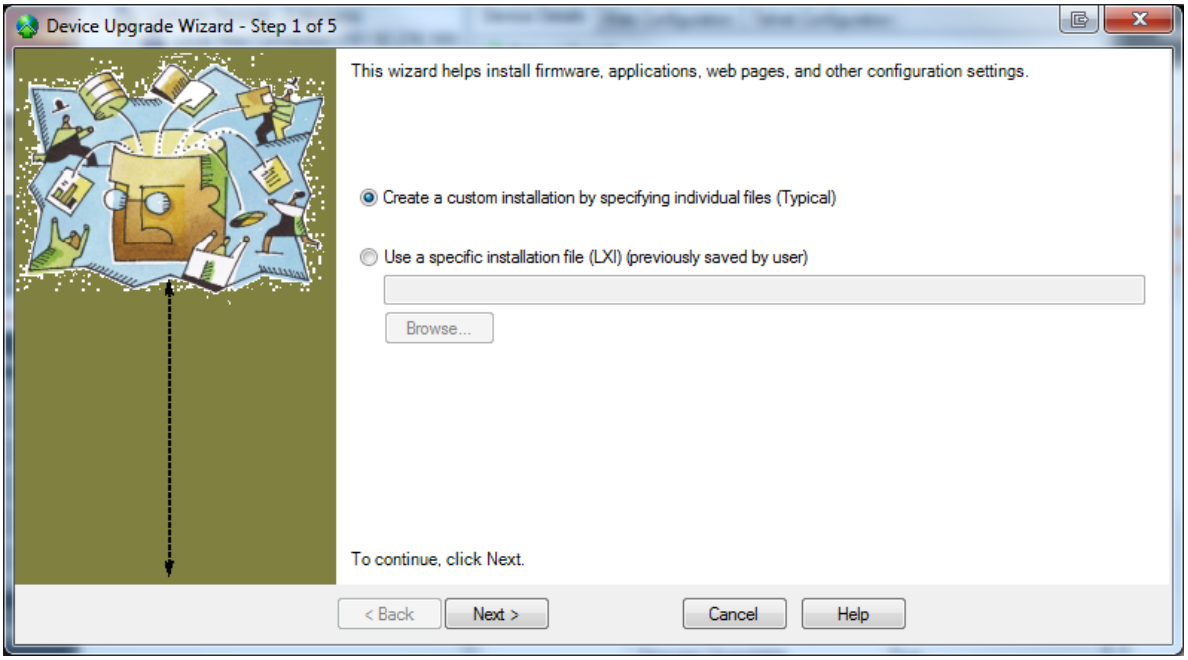
1. Click the Next button to confirm installation.
2. Run the Lantronix DeviceInstaller application
3. Click Search to locate the 100BT on the network
4. Click on the IP address under the XPort device icon


Lantronix DeviceInstaller 4.3.0.3
File
Edit
View
Device
Tools
Help
Search
Exclude
Assign IP
Upgrade
Lantronix Devices - 2 device(s)
Local Area Connection (161.92.216.166)
XPort
XPort-03/04 - firmware v3.10
161.92.216.145
XPort-03/04 - firmware v3.11
161.92.216.135
Device Details
Web Configuration
Telnet Configuration
Upgrade firmware and/or web pages of the selected device.
Property
Value
Name
DHCP Device Name
Group
Comments
Device Family
XPort
Type
XPort-03/04
ID
X5
Hardware Address
00-20-4A-98-56-E1
Firmware Version
3.11
Online Status
Online
IP Address
161.92.216.135
IP Address was Obtained
Statically
Subnet Mask
255.255.0.0
Gateway
0.0.0.0
Number of COB partitions suppo...
6
Number of Ports
1
TCP Keepalive
45
Telnet Supported
True
Telnet Port
9999
Web Port
80
Maximum Baud Rate Supported
921600
Firmware Upgradable
True
Ready

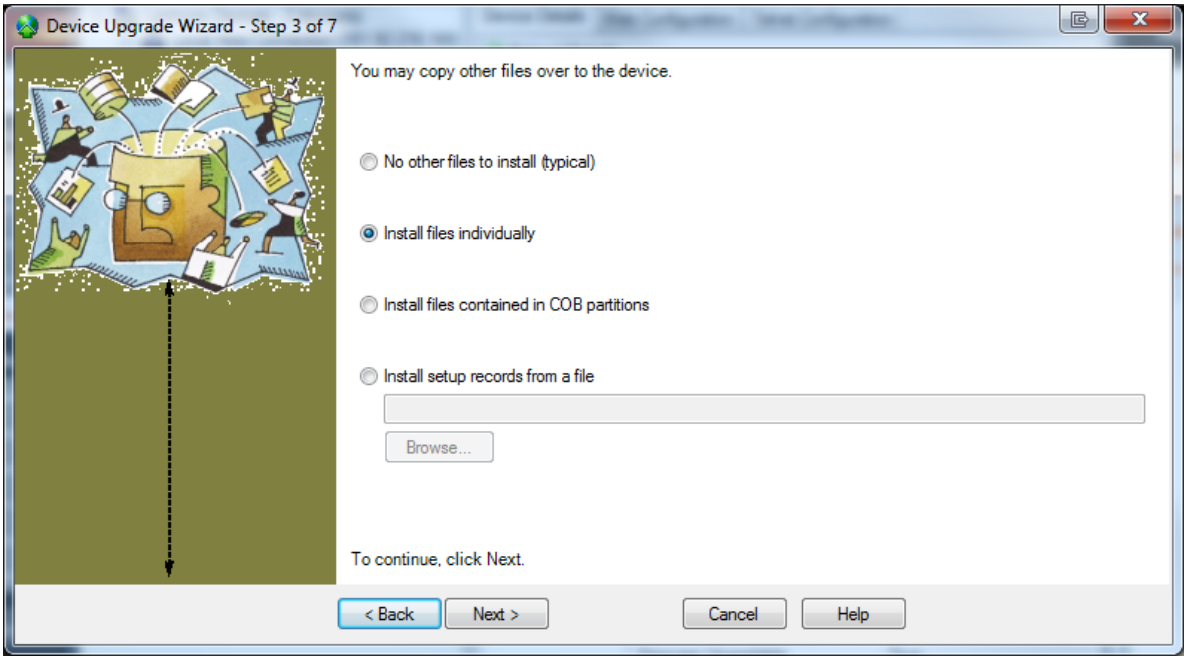
Step 7

➤ Run Device Upgrade Wizard:

1. Click Upgrade
2. Check Create a custom installation by specifying individual files (Typical)
3. Click the Next button in the Device Upgrade Wizard

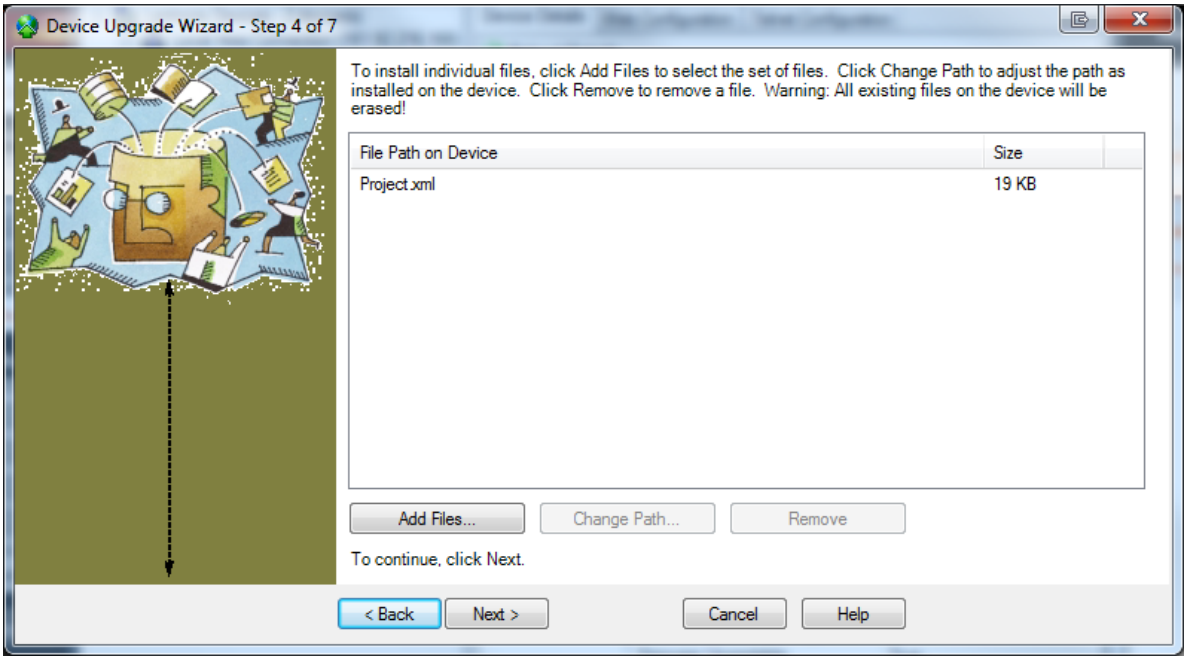

Device Upgrade Wizard - Step 1 of 5
This wizard helps install firmware, applications, web pages, and other configuration settings.
Create a custom installation by specifying individual files (Typical)
Use a specific installation file (LXI) (previously saved by user)
Browse...
To continue, click Next.
< Back
Next >
Cancel
Help

4. Click the Next button in the Device Upgrade Wizard
5. Check Install Files individually
6. Click the Next button in the Device Upgrade Wizard

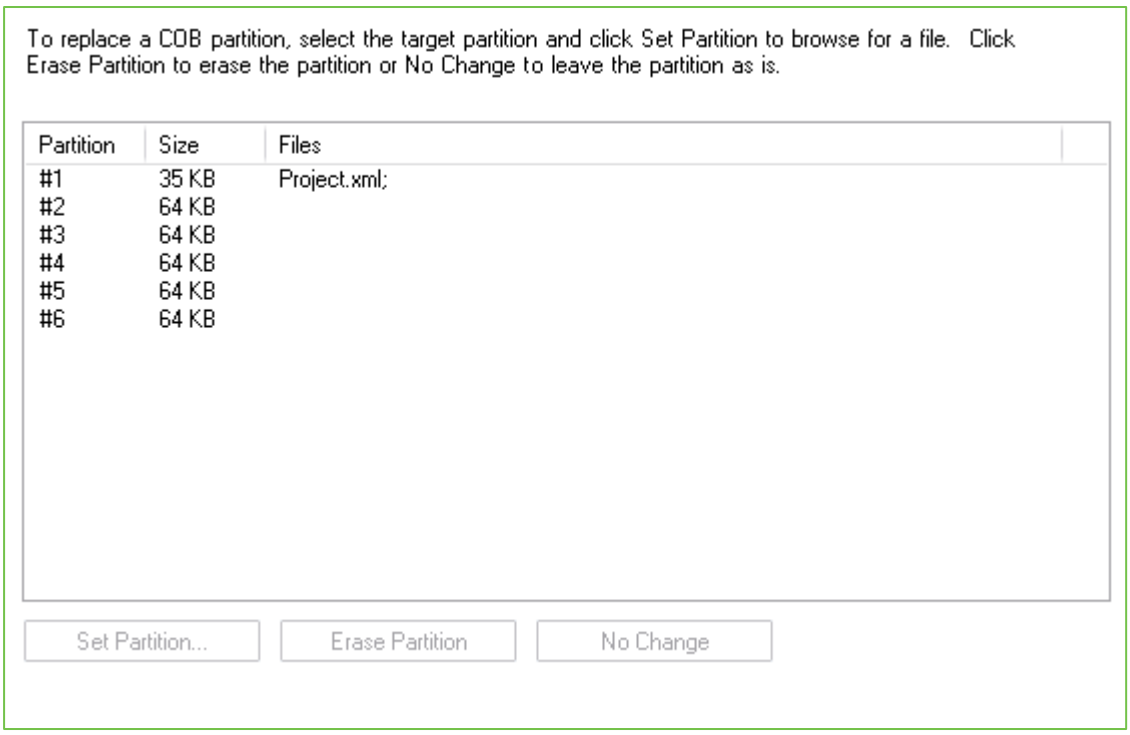

Device Upgrade Wizard - Step 3 of 7
You may copy other files over to the device.
No other files to install (typical)
Install files individually
Install files contained in COB partitions
Install setup records from a file
Browse...
To continue, click Next.
< Back
Next >
Cancel
Help

Note: The file size must be under 64K.

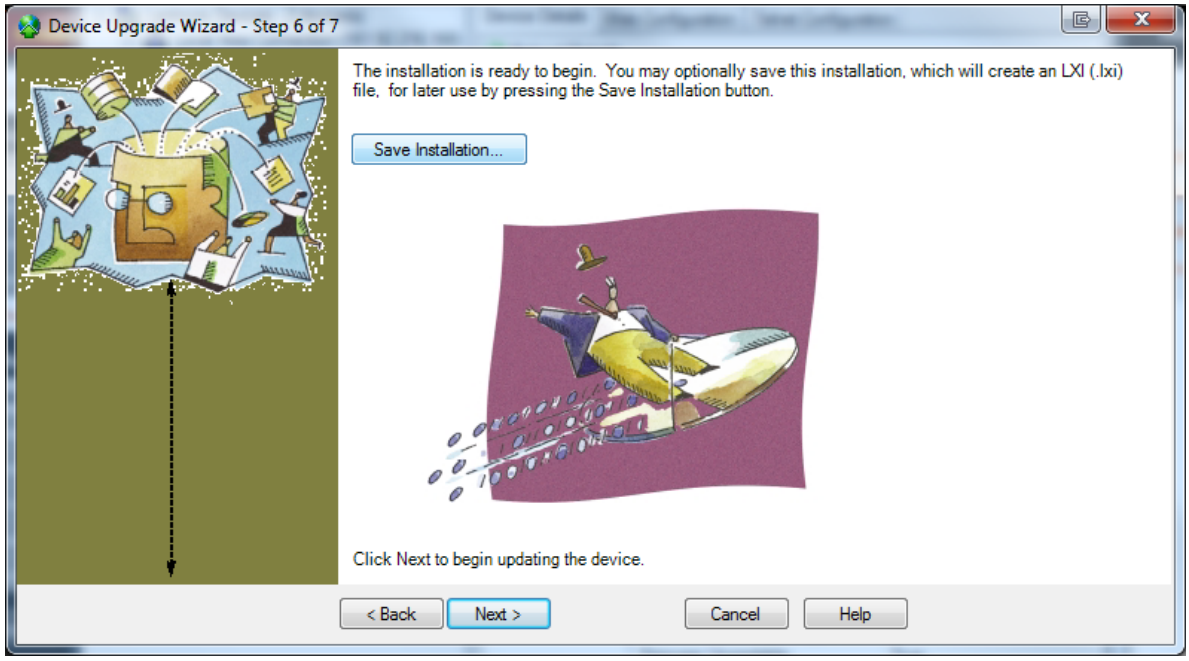
7. Click the Add Files button
8. Select the Project.xml file and click the Open button
9. Click the Next button in the Device Upgrade Wizard.


Device Upgrade Wizard - Step 4 of 7
To install individual files, click Add Files to select the set of files. Click Change Path to adjust the path as installed on the device. Click Remove to remove a file. Warning: All existing files on the device will be erased!
File Path on Device
Size
Project.xml
19 KB
Add Files...
Change Path...
Remove
To continue, click Next.
< Back
Next >
Cancel
Help

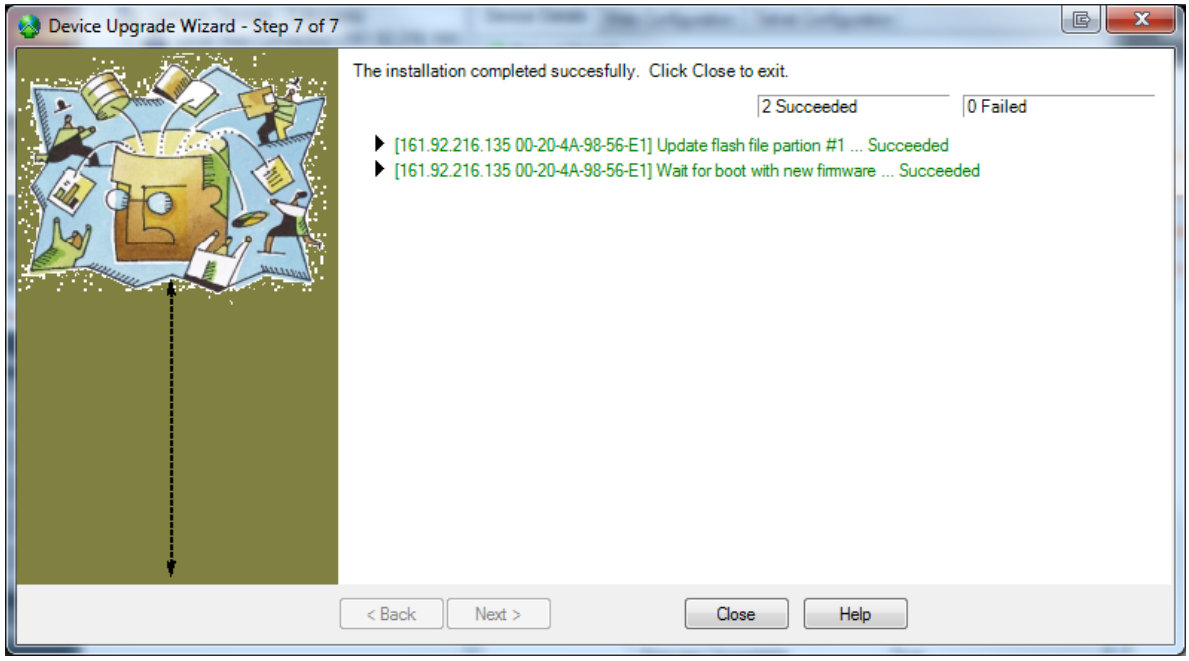
10. Click the Next button (Partition #1 should have the project file).


To replace a COB partition, select the target partition and click Set Partition to browse for a file. Click Erase Partition to erase the partition or No Change to leave the partition as is.
Partition
Size
Files
#1 35 KB Project.xml;
#2 64 KB
#3 64 KB
#4 64 KB
#5 64 KB
#6 64 KB
Set Partition...
Erase Partition
No Change

11. Click the Next button in the Device Upgrade Wizard (No Change).


Device Upgrade Wizard - Step 6 of 7
The installation is ready to begin. You may optionally save this installation, which will create an LXI (.lxi) file, for later use by pressing the Save Installation button.
Save Installation...
Click Next to begin updating the device.
< Back
Next >
Cancel
Help

12. Click the Close button


Device Upgrade Wizard - Step 7 of 7
The installation completed succesfully. Click Close to exit.
2 Succeeded
0 Failed
[161.92.216.135 00-20-4A-98-56-E1] Update flash file partion #1 ... Succeeded
[161.92.216.135 00-20-4A-98-56-E1] Wait for boot with new firmware ... Succeeded
< Back
Next >
Close
Help

Project.xml is successfully saved into the Philips Dynalite 100BT Ethernet Gateway device.

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